

# National Commission For Academic Accreditation & Assessment

## Course Specification

Institution : <b>King Khalid University</b>
College/Department : <b>College of Science/ Biology Department</b>

### A Course Identification and General Information

1. Course title and code: <b>Graduation dissertation - 432-bio</b>
2. Credit hours : <b>3 weekly</b>
3. Program(s) in which the course is offered. (If general elective available in many programs indicate this rather than list programs) <b>Undergraduate (BSc) students program</b>
4. Name of faculty member responsible for the course <b>Dr. Ahmed Abdallah Hussain (coordinator)</b>
5. Level/year at which this course is offered <b>7<sup>th</sup> level/1433-1434</b>
6. Pre-requisites for this course (if any) <b>Anatomy, Biochemistry, animal physiology, plant physiology</b>
7. Co-requisites for this course (if any)
8. Location if not on main campus <b>Main campus (male students) .</b>

## B Objectives

**By the end of this practical exercise the students should be able to know:**

- 1- Preparation of a research proposal .**
- 2- Methods of data collection.**
- 3- Data analysis and results writing.**
- 4- Ability to dig into literature and collect he information.**
- 5- Ability to collaborate with the laboratory mates.**
- 6- Ability to collaborate with research in different research fields.**

2. Briefly describe any plans for developing and improving the course that are being implemented. (eg increased use of IT or web based reference material, changes in content as a result of new research in the field):

**This course is of a special nature in that it prepares the students for undertaking future research work. Therefore, the supervisors help their students construct research that tackles the current problems related to the region. Suitable lab equipment and lecture room facility should all be used to achieve this goal. To embark on a given research problem, students and supervisors must consider discussion of the market value of the research. Students are also encouraged to prepare for their talk in the form of PowerPoint presentations deposited as PDF files on the department Website that could be accessed by the students enrolled in the course. Most importantly, the students are also encouraged to participate in the annual competition for King Abdalla's award for undergraduate research annually held in Riyadh.**

**C. Course Description** (Note: General description in the form to be used for the Bulletin or Handbook should be attached)

### **1 Topics to be Covered**

**As stated earlier, this course is of a special form relative to those of the other courses. Different research subjects at the discretion of the supervisor and the student are undertaken**

2 Course components (total contact hours per semester): **26 hours**

Lecture:	Tutorial:	Laboratory	Practical/Field work/Internship	Other:
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3. Additional private study/learning hours expected for students per week. (This should be an average :for the semester not a specific requirement in each week)

4. Development of Learning Outcomes in Domains of Learning

For each of the domains of learning shown below indicate:

- A brief summary of the knowledge or skill the course is intended to develop;
- A description of the teaching strategies to be used in the course to develop that knowledge or skill;
- The methods of student assessment to be used in the course to evaluate learning outcomes in the domain concerned.

**a. Knowledge**

(i) Description of the knowledge to be acquired

On completion of this course, the students get scientific information about:

- 1- Preparation of a research proposal .**
- 2- Methods of data collection.**
- 3- Data analysis and results writing.**
- 4- Ability to dig into literature and collect he information.**
- 5- Ability to collaborate with the laboratory mates.**
- 6- Ability to collaborate with research in different research fields.**

**1-**

(ii) Teaching strategies to be used to develop that knowledge

- Preparatory lectures .**
- Conducting research related to botany, zoology and microbiology.**
- Training in statistical analysis and presentation of results.**
- Training in extraction of conclusions and recommendations.**

(iii) Methods of assessment of knowledge acquired <b>one theoretical exam plus assignments per semester account for 50% of final assessment. End of the semester examination with combination of different types of questions..</b>
<b>b. Cognitive Skills</b>
(i) Description of cognitive skills to be developed
(ii) Teaching strategies to be used to develop these cognitive skills
(iii) Methods of assessment of students cognitive skills
<b>c. Interpersonal Skills and Responsibility</b>
(i) Description of the interpersonal skills and capacity to carry responsibility to be developed <ul style="list-style-type: none"> <li><b>1. Work independently and as a team work</b></li> <li><b>2. Manage recourses and time .</b></li> <li><b>3. Communicate the assignments with other colleagues</b></li> </ul>
(ii) Teaching strategies to be used to develop these skills and abilities
(iii) Methods of assessment of students interpersonal skills and capacity to carry responsibility
<b>d. Communication, Information Technology and Numerical Skills</b>
(i) Description of the skills to be developed in this domain.
(ii) Teaching strategies to be used to develop these skills

(iii) Methods of assessment of students numerical and communication skills
<b>e. Psychomotor Skills (if applicable)</b>
(i) Description of the psychomotor skills to be developed and the level of performance required
(ii) Teaching strategies to be used to develop these skills
(iii) Methods of assessment of students psychomotor skills

5. Schedule of Assessment Tasks for Students During the Semester			
Assessment	Assessment task (eg. essay, test, group project, examination etc.)	Week due	Proportion of Final Assessment
1	Attendance of lectures	5-6	10%
2	Punctuality, interest and writing •	1-15	40%
3	Supervisor and examination committee evaluation	16	50%
4			
5			
6			
7			
8			

#### D. Student Support

1. Arrangements for availability of teaching staff for individual student consultations and academic advice. (include amount of time teaching staff are expected to be available each week)

**E Learning Resources**

<b>Differs according to research title</b>
<b>2. Essential References</b> <b>Depend on research subject</b>
3- Recommended Books and Reference Material (Journals, Reports, etc) (Attach List) <b>Depend on research subject</b>
4-.Electronic Materials, Web Sites etc <b>Websites on the internet that are relevant to the topics of the research</b>
5- Other learning material such as computer-based programs/CD, professional standards/regulations <b>Multimedia associated with the text book and the relevant websites</b>

**F. Facilities Required**

Indicate requirements for the course including size of classrooms and laboratories (ie number of seats in classrooms and laboratories, extent of computer access etc.)
1. Accommodation (Lecture rooms, laboratories, etc.)
2. Computing resources
3. Other resources (specify --eg. If specific laboratory equipment is required, list requirements or attach list)

**G Course Evaluation and Improvement Processes**

1 Strategies for Obtaining Student Feedback on Effectiveness of Teaching
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2 Other Strategies for Evaluation of Teaching by the Instructor or by the Department
3 Processes for Improvement of Teaching
4. Processes for Verifying Standards of Student Achievement (eg. check marking by an independent member teaching staff of a sample of student work, periodic exchange and remarking of tests or a sample of assignments with staff at another institution)
5 Describe the planning arrangements for periodically reviewing course effectiveness and planning for improvement.